

## Curs 6. Adresare IP v4

192.168.1.173

D.. 255

→ NU există adrese

2) ce dacă  
0.0.0.0 e in-ADDRANY?

0.x.y.z (pt că 0.0.0.0 e in-ADDRANY)

127.x.y.z (pt că 127.x.y.z e local host)

peste 223.255.255.255

→ 255.255.255.255 → IP universal de broadcast

192.168.1. x <sup>0</sup>  
Netmask → 255.255.255.0 <sup>255</sup>

} 256 adrese IP

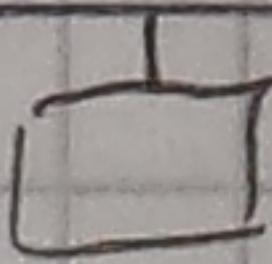
192.168.1.0 → adresa de rețea  
255.255.255.0 (netmask-ul)  
= /24

Net mask  
(masca de rețea)

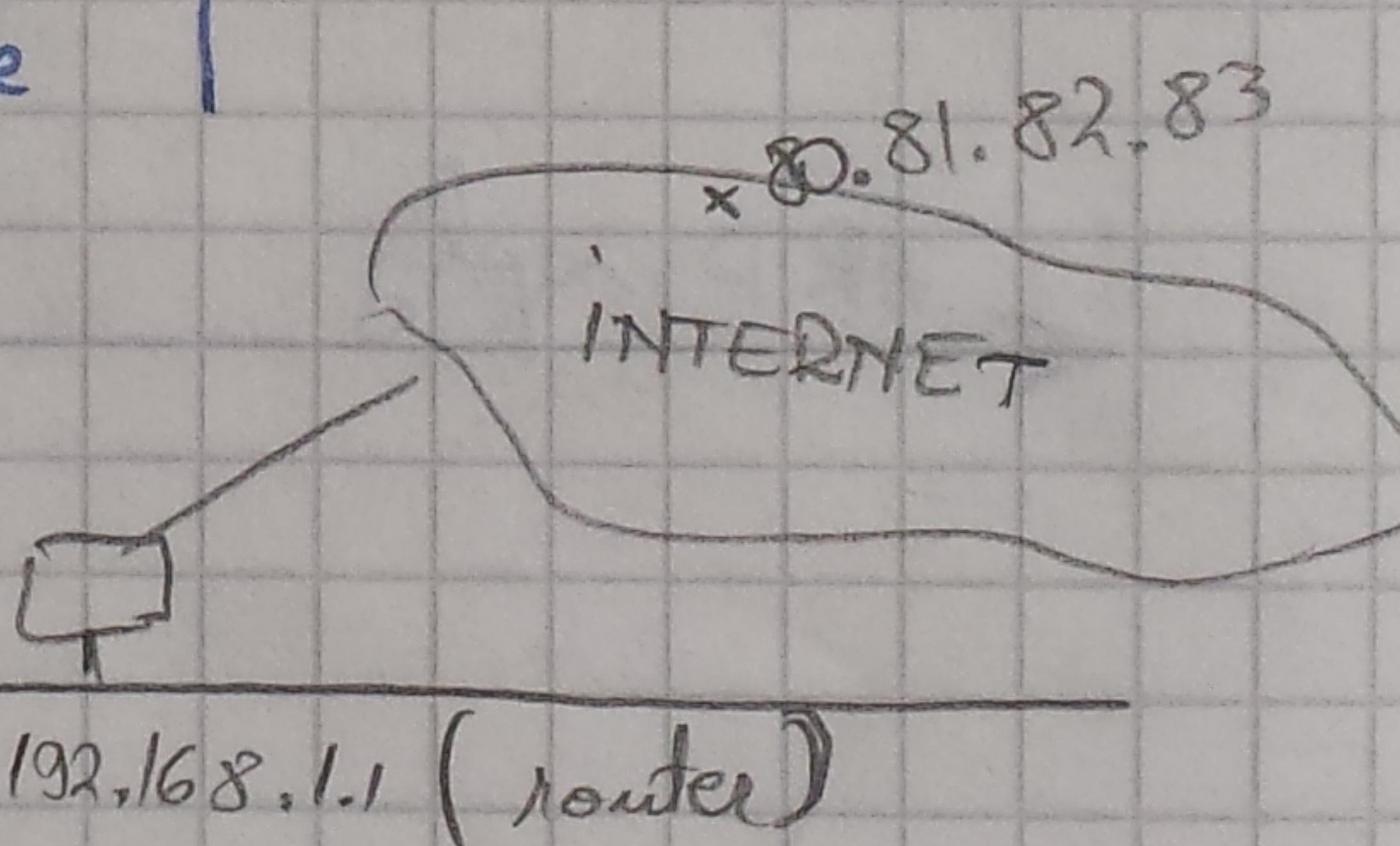
/adresa de rețea IP/

192.168.1.255 → IP de broadcast a  
rețelei locale

192.168.1.7



192.168.1.20



Default gateway = echipamentul cu adresa IP la care trebuie trimise datele pt că acestea să pătrundă rețeaua locală

I) 192.168.1.7 → 192.168.1.20 (NU am nevoie de internet, gateway...)

II) 192.168.1.7 → 80.81.82.83

① a)  $\begin{array}{c} 192.168.1.7 \\ \hline 255.255.255.0 \end{array}$

adresa de retea  
192.168.1.0

$=$

$\begin{array}{c} 192.168.1.20 \\ \hline 255.255.255.0 \end{array}$

$192.168.1.0$

b) ARP request trimis de nrasă (afilă MAC-ul destinației)

ARP reply de la dest. frame (cadru)

c)

iu	IPs: 192.168.1.7 IPd: 192.168.1.20	MAC nrasă: mac A MAC dest: mac B
pachet		

② a)  $\begin{array}{c} 192.168.1.7 \\ \hline 255.255.255.0 \end{array}$

$192.168.1.0$

$\neq$

$\begin{array}{c} 80.81.82.83 \\ \hline 255.255.255.0 \end{array}$

$80.81.82.0$

b) ARP request pt adresa MAC a default gateway

c)

iu	IPs: 192.168.1.7 IPd: 80.81.82.83	mac s: MAC A mac d: MAC GW
pachet		

$\begin{array}{c} 192.168.0. X \\ \hline 0.0.0.255 \end{array}$

(nu are masca)

192.168.1.255  $\leftarrow$  adresa de broadcast a retelei  
(ultima adresa IP din cluză)

A.B.C

A: 0xxx xxxx . x.y.z

/8

0 . x . y . z

} adresa IP de cluză A

127 . x . y . z

30 . x . y . z

$2^{24}$  adrese

30.0.0.0  $\leftarrow$  adr. retea

30.255.255.255  $\leftarrow$  broadcast

13

**B:** 10xx xxxx . x.y.z

/16

128. x.y.z

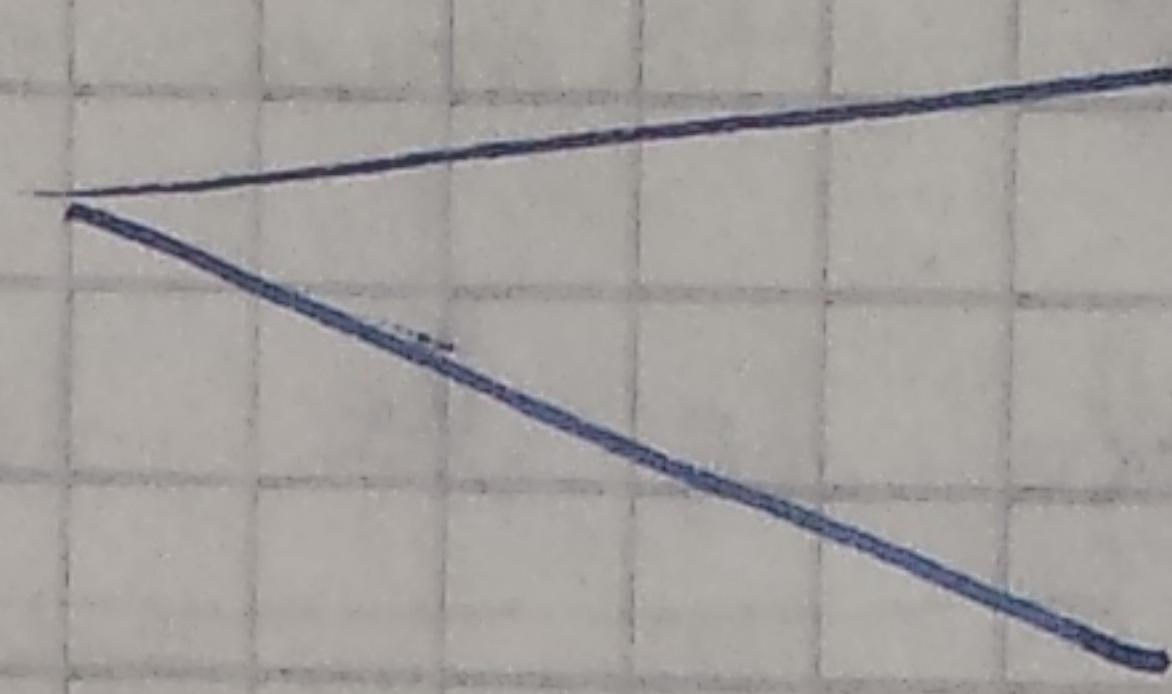
:

191. x.y.z

↳ 64. 256

Ex:

140. 152. x.y



140. 152. 0. 0 <adr. nete

**C:**

110 x xxxx . x.y.z

140. 152.255.255 <adr.  
broadcast

192. x.y.z

:

223. x.y.z

↳ 32. 256. 256 class

in formule:

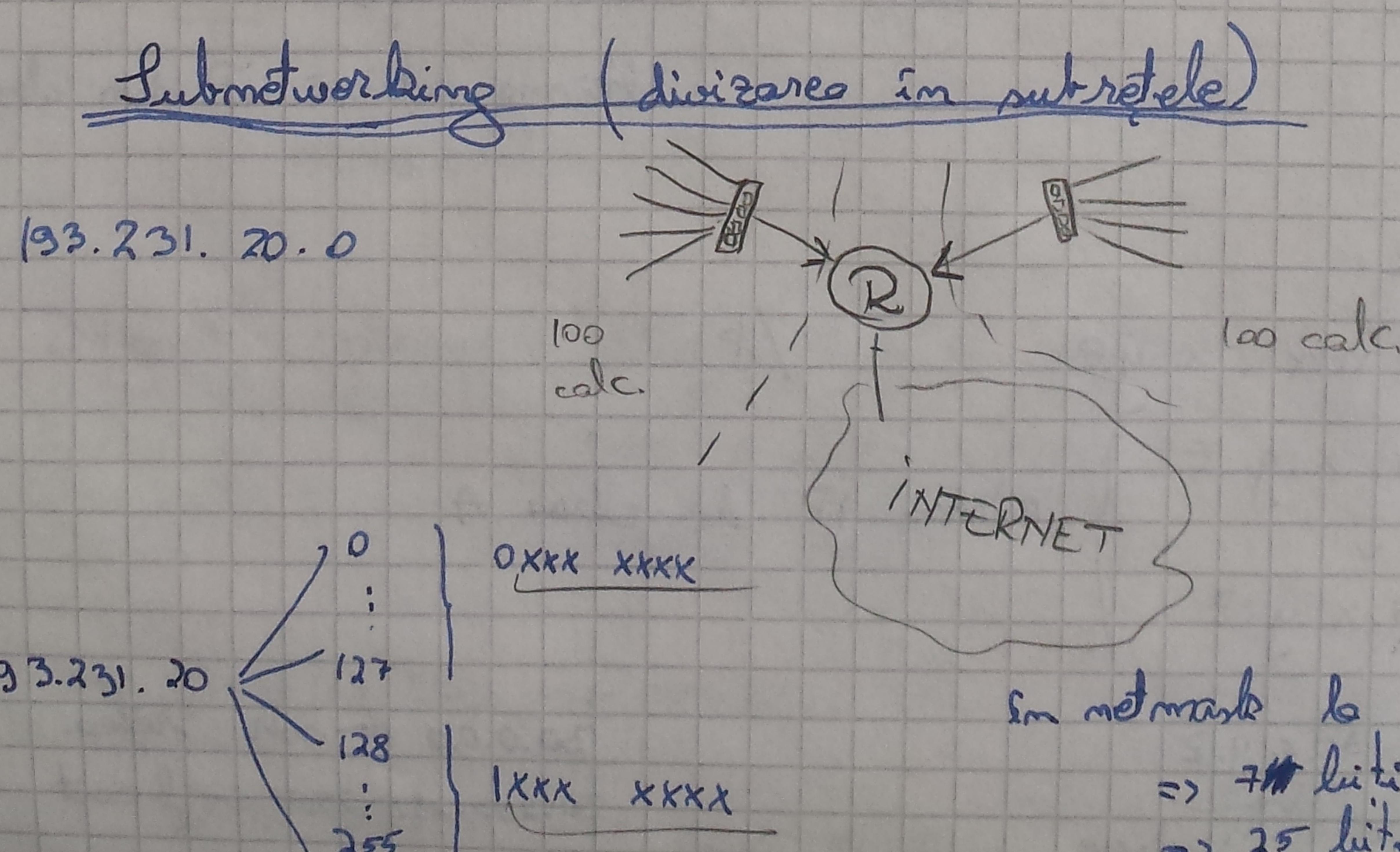
B: 172. 30. x. y

172. 30. 0. 0

/ 255. 255. 0. 0

172. 30. 255. 255


GW → 172. 30. 0. 1.



=> ~ foloseste subnet mask 193.231.20.128  
(1000 0000)

burs 7. Folosezi sub clase de adrese

10. XI. 2015



193.231.20.32

:

193.231.20.35

193.231.20.32 / 26

PROSTIE!

